

In the Specification:

Please amend the specification as follows:

Page 1, first paragraph:

Cross-reference to related applications

This application claims priority to Finnish patent application 20031672 filed 18 November 2003 and is the national phase under 35 U.S.C. § 371 of PCT/FI2004/000691.

Field of the Invention

The invention relates to correcting humidity measurement results of a radiosonde.

Background of the Invention

Paragraph bridging pages 2 and 3:

Summary of the Invention

One object of the present invention is to provide a method for correcting the humidity measurement results of the radiosonde, and especially for correcting the humidity measuring

errors resulting either directly or indirectly from radiative heat exchange. Typically, the radiative heat exchange causes humidity measurement errors directly or indirectly from short-wave solar radiation or from long-wave thermal radiation of an object (IR).

Page 7, second paragraph:

~~The dependent claims relate to advantageous embodiments of the invention. The contents of the dependent claims related to one aspect of the invention may also be applied to the other aspects of the invention.~~

Brief Description of the Drawings

Page 8, second paragraph:

Detailed Description of Embodiments of the Invention

On general level, in the method according to an embodiment of the invention, one performs a so-called normal humidity measurement with a humidity sensor included in a radiosonde for acquiring measured value U_m for environmental humidity. In the same context, one determines the current value of at least one environmental conditions parameter. Then, with this value of measured environmental humidity U_m and this current value of environmental conditions parameter (or parameters), one calculates directly or indirectly the error-corrected humidity U .